

# **SAFETY DATA SHEET**

According to JIS Z 7253:2012

Revision Date 12-Mar-2014

Version 1

# Section 1: PRODUCT AND COMPANY IDENTIFICATION

Product name	Imicyafos Standard
Product code	091-06911
CAS No	140163-89-9

Formula C11H21N4O2PS

Manufacturer Wako Pure Chemical Industries, Ltd

1-2 Doshomachi 3-Chome, Chuo-ku, Osaka 540-8605, Japan

Phone: +81 (0)6-6203-3741 Fax: +81 (0)6-6203-5964

Supplier Wako Pure Chemical Industries, Ltd

Danger

1-2 Doshomachi 3-Chome, Chuo-ku, Osaka 540-8605, Japan

Phone: +81 (0)6-6203-3741 Fax: +81 (0)6-6203-5964

Emergency telephone number

Recommended uses and

restrictions on use

+81-6-6203-3741 / +81-3-3270-8571 For research purposes

# **Section 2: HAZARDS IDENTIFICATION**

GHS classification
Classification of the substance or mixture

Acute toxicity - Oral Acute toxicity - Inhalation (Vapors)

Skin sensitization

aquatic environment (acute hazard)

Category 4 (H331)

Category 4 - (H332) Category 1 - (H317)

Category 1 - (H400)

# **Pictograms**



Signal word

# Hazard statements

H301 - Toxic if swallowed

H317 - May cause an allergic skin reaction

H332 - Harmful if inhaled

H400 - Very toxic to aquatic life

**Precautionary statements-(Prevention)** 

- Wash face, hands and any exposed skin thoroughly after handling
- Do not eat, drink or smoke when using this product
- Avoid breathing dust/fume/gas/mist/vapors/spray
- · Use only outdoors or in a well-ventilated area
- Contaminated work clothing should not be allowed out of the workplace
- · Protective gloves
- · Avoid release to the environment

#### Precautionary statements-(Response)

- IF ON SKIN: Wash with plenty of soap and water
- If skin irritation or rash occurs: Get medical advice/attention
- · Wash contaminated clothing before reuse
- IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
- Call a POISON CENTER or doctor/physician if you feel unwell
- IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician
- · Rinse mouth
- · Collect spillage

#### Precautionary statements-(Storage)

Store locked up

#### Precautionary statements-(Disposal)

• Dispose of contents/container to an approved waste disposal plant

Others

Other hazards Not available

# Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

Single Substance or Mixture

**Chemical Name** 

**Imicyafos** 

Substance C11H21N4O2PS

Formula

 Weight-%
 Molecular weight
 ENCS
 ISHL No.
 CAS No

 98.0
 304.35
 N/A
 8-(2)-2173
 140163-89-9

# Impurities and Stabilizing additives No which constitute the substance

# **Section 4: FIRST AID MEASURES**

#### Inhalation

Remove to fresh air Immediate medical attention is required

#### Skin contact

Wash off immediately with soap and plenty of water Immediate medical attention is required

#### Eye contact

Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes Call a physician immediately

# Ingestion

Call a physician or poison control center immediately Rinse mouth

#### Protection of first-aiders

Use personal protective equipment as required Avoid contact with skin, eyes or clothing

# **Section 5: FIRE FIGHTING MEASURES**

#### Suitable extinguishing media

Water spray (fog), carbon dioxide (CO2), Foam, Extinguishing powder,

# Unsuitable extinguishing media

No information available

# Special extinguishing method

No information available

#### Specific hazards arising from the chemical product

Thermal decomposition can lead to release of irritating and toxic gases and vapors.

#### **Protection of fire-fighters**

Use personal protective equipment as required Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear

# Section 6: ACCIDENTAL RELEASE MEASURES

#### Personal precautions, protective equipment and emergency procedures

For indoor, provide adequate ventilation process until the end of working. Deny unnecessary entry other than the people involved by, for example, using a rope. While working, wear appropriate protective equipments to avoid adhering it on skin, or inhaling the gas. Work from windward, and retract the people downwind.

#### **Environmental precautions**

To be careful not discharged to the environment without being properly handled waste water contaminated See Section 12 for additional ecological information

#### Methods and materials for contaminent and methods and materials for cleaning up

Absorb dry sand, earth, sawdust and the waste. Collect empty container that can be sealed. Please wash the rest with plenty of water. Absorb the product flowing out on the water to soak the absorber.

#### Recoverly, neutralization

No information available

#### Secondary disaster prevention measures

Clean contaminated objects and areas thoroughly observing environmental regulations

# Section 7: HANDLING AND STORAGE

#### Handling

#### **Technical measures**

Highly flammable. Avoid contact with high temperature objects, spark, and strong oxidizing agents. Use with local exhaust ventilation.

#### **Precautions**

Do not rough handling containers, such as upsetting, falling, giving a shock, and dragging. Prevent leakage, overflow, and scattering. Not to generate steam and dust in vain. Seal the container after use. After handling, wash hands and face, and then gargle. In places other than those specified, should not be smoking or eating and drinking. Should not be brought contaminated protective equipment and gloves to rest stops. Deny unnecessary entry of non-emergency personnel to the handling area.

#### Safety handling precautions

Use personal protective equipment as required Avoid contact with skin, eyes or clothing Wash contaminated clothing before reuse Do not breathe dust/fume/gas/mist/vapors/spray Do not eat, drink or smoke when using this product Avoid contact with skin, eyes or clothing Do not breathe dust/fume/gas/mist/vapors/spray Use personal protective equipment as required

#### Storage

Safe storage conditions

Storage conditions Keep container protect from light tightly closed. Store in a cool (2-10 degree C) place.

Packed with an inert gas. Store locked up

Safe packaging material Glas

Incompatible substances Strong oxidizing agents

# Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

# **Engineering controls**

For indoor, provide adequate ventilation process until the end of working. Deny unnecessary entry other than the people involved by, for example, using a rope. While working, wear appropriate protective equipments to avoid adhering it on skin, or inhaling the gas. Work from windward, and retract the people downwind.

Control parameters Not regulated

Exposure limits This product, as supplied, does not contain any hazardous materials with occupational

exposure limits established by the region specific regulatory bodies

Personal protective equipment

**Respiratory protection** gas mask for organic gas

Hand protection Protective gloves

**Eye protection** protective eyeglasses or chemical safety goggles Skin and body protection Long-sleeved work clothes, protective boots

**General hygiene considerations** 

Handle in accordance with good industrial hygiene and safety practice

# **Section 9: PHYSICAL AND CHEMICAL PROPERTIES**

Form slightly yellow ~ yellow liquid

Odor No data available

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Melting point/freezing point

Boiling point, initial boiling point and boiling range
Flash point
Evaporation rate:
No data available

Upper/lower flammability or

explosive limits

Upper:
Lower:
No data available
No data available
Vapour pressure
Vapour density
No data available

Solubilities water, ethanol, methanol and acetone: soluble.

n-Octanol/water partition coefficient:(log Pow)No data availableAuto-ignition temperature:No data availableDecomposition temperature:No data availableViscosity (coefficient of viscosity)No data availableDynamic viscosityNo data available

# **Section 10: STABILITY AND REACTIVITY**

#### Stability

Stability altered by light.

Reactivity No data available

**Hazardous reactions** 

None under normal processing

Conditions to avoid

Extremes of temperature and direct sunlight

Incompatible materials

Strong oxidizing agents

Hazardous decomposition products

Carbon monooxide (CO), carbon dioxide (CO2), Sulfur oxides (SOx), Phosphorus oxide, Nitrogen oxides (NOx)

# **Section 11: TOXICOLOGICAL INFORMATION**

**Acute toxicity** 

 Oral LD50
 81.3 mg/kg (rat)

 Dermal LD50
 > 2000 mg/kg (rat)

Inhalation LC50 2.16 mg/l

Skin irritation/corrosionNo data availableSerious eye damage/ irritationNo data available

Respiratory or skin sensitizationNo data availableReproductive cell mutagenicityNo data availableCarcinogenicityNo data availableReproductive toxicityNo data availableSTOT-single exposureNo data availableSTOT-repeated exposureNo data availableAspiration hazardNo data available

# **Section 12: ECOLOGICAL INFORMATION**

**Ecotoxicity** 

Other data No data available

Persistence and degradability Bioaccumulative potential Mobility in soil

Mobility in soil
Hazard to the ozone layer

No information available No information available No information available No information available

# Section 13: DISPOSAL CONSIDERATIONS

#### Waste from residues

Disposal should be in accordance with applicable regional, national and local laws and regulations.

#### Contaminated container and contaminated packaging

Disposal should be in accordance with applicable regional, national and local laws and regulations.

# **Section 14: TRANSPORT INFORMATION**

ADR/RID

UN number UN2783

**Proper shipping name:** Organophosphorus pesticide, solid, toxic

UN classfication 6.1 Subsidiary hazard class 6.1

Labels

Packing group III ERG Code 6L

**IMDG** 

UN number UN2783

**Proper shipping name:** Organophosphorus pesticide, solid, toxic

UN classfication 6.1

Subsidiary hazard class

Packing group

EmS-No F-A, S-A Marine pollutant (Sea) Yes

ATA

UN number UN2783

**Proper shipping name:** Organophosphorus pesticide, solid, toxic

UN classification 6.1

**Subsidiary hazard class** 

Packing group III
Marine pollutant Yes

# **Section 15: REGULATORY INFORMATION**

#### International Inventories

EINECS/ELINCS - TSCA -

Japanese regulations

Fire Service Act Category IV, Class I I I petroleums, dangerous grade 3

Poisonous and Deleterious Deleterious Substances 3rd. Grade

Substances Control Law

Industrial Safety and Health Act No Act on the Evaluation of No

Chemical Substances and

Regulation of Their Manufacture,

etc

Regulations for the carriage and storage of dangerous goods in

ship

**Civil Aeronautics Law** 

Marine Pollution Prevention Law Pollutant Release and Transfer No

**Register Law** 

Water Pollution Control Act
Gunpowder Control Law
No
High Pressure Gas Safety Law
No

Dangerous component

ETCO Not applicable

# **Section 16: OTHER INFORMATION**

Literature and references

Revision Note No information available

# **Disclaimer**

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

GHS Classification is according to JIS Z7252(2010). \*JIS: Japanese Industrial Standards

**End of Safety Data Sheet**